

## Storm Data and Unusual Weather Phenomena - May 2009

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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### ILLINOIS, South

**UNION COUNTY --- 3.2 SW LARUE [37.50, -89.49], 2.9 SW LARUE [37.50, -89.49], 2.9 SW WOLF LAKE [37.47, -89.46], 3.2 SW WOLF LAKE [37.47, -89.47]**

	05/02/09 05:00 CST	0	Flood (due to Heavy Rain)
	05/28/09 14:00 CST	30K	Source: River/Stream Gage

Minor to moderate flooding of the Mississippi River occurred for nearly the entire month of May. At the Thebes gage in Alexander County, where flood stage is 33 feet, the river crested at 38.35 feet on the 23rd. Moderate flooding begins around 37 feet there. Agricultural bottomland and low-lying areas were flooded.

**ALEXANDER COUNTY --- 0.8 SSE THEBES [37.21, -89.46], 0.7 SE THEBES [37.21, -89.46], 0.4 E THEBES [37.22, -89.46], 0.2 E THEBES [37.22, -89.47]**

	05/02/09 08:00 CST	0	Flood (due to Heavy Rain)
	05/28/09 21:00 CST	30K	Source: River/Stream Gage

Minor to moderate flooding of the Mississippi River occurred for nearly the entire month of May. At the Thebes gage, where flood stage is 33 feet, the river crested at 38.35 feet on the 23rd. Moderate flooding begins around 37 feet. Moderate flooding began around the communities of Thebes and Gale. Agricultural bottomland and low-lying areas were flooded.

**Several rounds of heavy rain over much of the Mississippi River Valley caused many rivers to rise above flood stage. May continued the active pattern begun in April. Several of these events produced very heavy rainfall. Rainfall was one to two inches above normal in most spots for the month.**

**WABASH COUNTY --- 1.5 E MT CARMEL [38.42, -87.74], 2.1 NE MT CARMEL [38.44, -87.74], 1.8 NE MT CARMEL [38.44, -87.75], 1.2 ENE MT CARMEL [38.42, -87.75]**

	05/03/09 06:00 CST	0	Flood (due to Heavy Rain)
	05/29/09 17:00 CST	30K	Source: River/Stream Gage

Moderate flooding of the Wabash River occurred for most of the month. At the Mt. Carmel gage, where flood stage is 19 feet, the river crested at 26.78 feet on the 22nd. Numerous local river roads were flooded. Extensive agricultural flooding was in progress in areas not protected by levees. Three Illinois township roads south of Illinois 1 between Keensburg and Grayville were flooded for a total of 10 miles. Access to oil fields in the Keensburg and Grayville areas was blocked by high water.

**WHITE COUNTY --- 1.3 E MAUNIE [38.03, -88.03], MAUNIE [38.03, -88.05], 1.1 NNE RISING SUN [38.02, -88.02], 2.2 E MAUNIE [38.03, -88.01]**

	05/04/09 17:00 CST	0	Flood (due to Heavy Rain)
	05/30/09 21:00 CST	20K	Source: River/Stream Gage

Minor flooding of the Wabash River occurred for most of the month. At the New Harmony, Indiana gage, where flood stage is 15 feet, the river crested at 18.65 feet on the 24th. Low ground was flooded along the river, including agricultural fields.

**Several rounds of heavy rain over much of the Wabash River Valley caused many rivers to rise above flood stage. May continued the active pattern begun in April. Several of these events produced very heavy rainfall. Rainfall was one to two inches above normal in most spots for the month.**

**JACKSON COUNTY --- 2.1 WSW MURPHYSBORO [37.76, -89.37], 2.3 WNW MT CARBON [37.76, -89.37], 1.2 W MT CARBON [37.75, -89.35], 1.6 WNW MT CARBON [37.76, -89.36]**

	05/03/09 16:00 CST	0	Flood (due to Heavy Rain)
	05/27/09 12:00 CST	0	Source: River/Stream Gage

Minor flooding of the Big Muddy River occurred. At the Murphysboro gage, where flood stage is 22 feet, the river crested at 27.87 feet on the 14th. Low-lying areas were flooded, affecting a small number of houses.

**FRANKLIN COUNTY --- 1.5 WNW PLUMFIELD [37.89, -89.03], 1.1 ENE ZEIGLER [37.90, -89.03], 1.4 S ZEIGLER JCT [37.90, -89.02], 1.2 WNW PLUMFIELD [37.89, -89.02]**

	05/08/09 16:00 CST	0	Flood (due to Heavy Rain)
	05/24/09 13:00 CST	0	Source: River/Stream Gage

Minor flooding of the Big Muddy River occurred. At the Plumfield gage, where flood stage is 20 feet, the river crested at 23.30 feet on the 11th. Low-lying and bottomland areas were flooded.

**Several rounds of heavy rain over much of the Mississippi River Valley caused many rivers to rise above flood stage. May continued the active pattern begun in April. Several of these events produced very heavy rainfall. Rainfall was one to two inches above normal in most spots for the month.**

## Storm Data and Unusual Weather Phenomena - May 2009

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>ALEXANDER COUNTY --- 0.3 WSW URBAN DALE [37.05, -89.18], 0.2 ESE URBAN DALE [37.05, -89.18], 1.6 S URBAN DALE [37.03, -89.18], 1.4 S URBAN DALE [37.03, -89.18]</b>				
	05/04/09 17:00 CST		0	Flood (due to Heavy Rain)
	05/28/09 19:00 CST		30K	Source: River/Stream Gage
Moderate flooding of the Ohio River occurred. At the Cairo gage, where flood stage is 40 feet, the river crested at 51.06 feet on the 13th. Agricultural bottomland and low-lying areas were flooded. The first flood gate was closed at Cairo. Much of Fort Defiance Park at the confluence of the Mississippi and Ohio Rivers was flooded.				
<b>MASSAC COUNTY --- BROOKPORT [37.12, -88.63], 0.9 WNW BROOKPORT [37.13, -88.64], 2.7 ESE METROPOLIS [37.14, -88.68], 2.8 ESE METROPOLIS [37.13, -88.68], 0.3 WSW BROOKPORT [37.12, -88.64]</b>				
	05/05/09 18:00 CST		0	Flood (due to Heavy Rain)
	05/23/09 22:00 CST		20K	Source: River/Stream Gage
Minor flooding of the Ohio River occurred. At the Brookport gage, where flood stage is 37 feet, the river crested at 45.0 feet on the 12th. Agricultural bottomland and low-lying areas were flooded. Portions of Fort Massac State Park in Metropolis were underwater.				
<b>PULASKI COUNTY --- 0.9 NNE OLMSTED [37.19, -89.07], 1.9 S NEW GRAND CHAIN [37.22, -89.02], 2.4 S NEW GRAND CHAIN [37.22, -89.01], 1.2 ENE OLMSTED [37.18, -89.06]</b>				
	05/05/09 19:00 CST		0	Flood (due to Heavy Rain)
	05/26/09 21:00 CST		30K	Source: River/Stream Gage
Moderate flooding of the Ohio River occurred. At the Grand Chain gage, where flood stage is 42 feet, the river crested at 51.60 feet on the 12th. Agricultural bottomland and low-lying areas were flooded. Water reached the power house at Lock and Dam 53.				
<b>POPE COUNTY --- 1.8 SSW GOLCONDA [37.35, -88.49], 1.9 S GOLCONDA [37.34, -88.49], 0.7 S GOLCONDA [37.36, -88.48], 0.7 SSW GOLCONDA [37.36, -88.48]</b>				
	05/09/09 11:00 CST		0	Flood (due to Heavy Rain)
	05/18/09 22:00 CST		20K	Source: River/Stream Gage
Minor flooding of the Ohio River occurred. At the Golconda gage, where flood stage is 40 feet, the river crested at 42.07 feet on the 15th. Agricultural bottomland and low-lying areas were flooded.				
<b>GALLATIN COUNTY --- 3.0 SSW SHAWNEETOWN [37.66, -88.16], 3.0 NNE SALINE MINES [37.66, -88.17], 1.1 SW SHAWNEETOWN [37.69, -88.14], 1.3 SSW SHAWNEETOWN [37.68, -88.14]</b>				
	05/09/09 16:00 CST		0	Flood (due to Heavy Rain)
	05/19/09 18:00 CST		20K	Source: River/Stream Gage
Minor flooding of the Ohio River occurred. At the Shawneetown gage, where flood stage is 33 feet, the river crested at 39.32 feet on the 15th. Agricultural bottomland and low-lying areas were flooded.				
<b>Several rounds of heavy rain over much of the Ohio River Valley caused many rivers to rise above flood stage. May continued the active pattern begun in April. Several of these events produced very heavy rainfall. Rainfall was one to two inches above normal in most spots for the month.</b>				
<b>(IL-Z075) JEFFERSON, (IL-Z076) WAYNE, (IL-Z077) EDWARDS, (IL-Z078) WABASH, (IL-Z081) FRANKLIN, (IL-Z082) HAMILTON, (IL-Z083) WHITE, (IL-Z086) SALINE, (IL-Z087) GALLATIN</b>				
	05/06/09 22:00 CST		0	Dense Fog
	05/07/09 06:00 CST		0	
<b>Widespread dense fog formed over southeast Illinois as a result of nocturnal cooling of a moist atmosphere. Visibility was one-quarter mile or less.</b>				
<b>PERRY COUNTY --- 1.6 SW LAYFIELD [38.08, -89.49]</b>				
	05/07/09 22:35 CST		8K	Thunderstorm Wind (EG 61 kt)
	05/07/09 22:35 CST		0	Source: NWS Storm Survey
Shingles were blown off a roof. A barn roof was partially blown off. The microburst damage area was about 100 yards long and 50 yards wide. The damage site was on Route 154 several miles west of Pinckneyville.				
<b>JACKSON COUNTY --- 2.9 SSW ORAVILLE [37.83, -89.41], 1.0 N MURPHYSBORO [37.78, -89.33]</b>				
	05/07/09 23:15 CST		20K	Hail (1.75 in)
	05/07/09 23:15 CST		0	Source: Emergency Manager

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Golf-ball hail fell on the north side of Murphysboro. An auto sales and home sales business received minimal damage. Vehicles were dinged at a residence northwest of Murphysboro. Smaller hail around the size of nickels fell downtown.

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**JACKSON COUNTY --- DE SOTO [37.82, -89.23], CARBONDALE [37.72, -89.22]**

	05/07/09 23:20 CST		0.10M	Hail (1.75 in)
	05/07/09 23:30 CST		0	Source: Trained Spotter

Hail ranging from quarter to golf-ball size affected the Carbondale area north to DeSoto. Quarter to half-dollar size hail fell in DeSoto. On the east side of Carbondale, at least ten car windshields were broken by golf-ball size hail. Hail from one to one-and-one-half inches in diameter was reported on the west and north sides of Carbondale.

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**JACKSON COUNTY --- MURPHYSBORO [37.77, -89.33]**

	05/07/09 23:20 CST		5K	Thunderstorm Wind (EG 50 kt)
	05/07/09 23:20 CST		0	Source: Emergency Manager

Power lines were down.

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**WILLIAMSON COUNTY --- CAMBRIA [37.78, -89.12], HERRIN [37.80, -89.03]**

	05/07/09 23:27 CST		0	Hail (1.75 in)
	05/07/09 23:40 CST		0	Source: Trained Spotter

Golf-ball size hail fell across much of western Williamson County from Carterville to Herrin and Cambria.

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**WILLIAMSON COUNTY --- 1.7 S (MWA)MARION WLLMSON [37.72, -89.02]**

	05/07/09 23:39 CST		0	Hail (2.00 in)
	05/07/09 23:46 CST		0	Source: Emergency Manager

Hail was measured up to two inches in diameter on Route 148.

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**SALINE COUNTY --- STONEFORT [37.62, -88.72]**

	05/08/09 00:11 CST		0	Hail (1.50 in)
	05/08/09 00:11 CST		0	Source: Public

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**JACKSON COUNTY --- 1.3 SSE MAKANDA [37.60, -89.19]**

	05/08/09 00:42 CST		0	Hail (1.00 in)
	05/08/09 00:42 CST		0	Source: Broadcast Media

Quarter-size hail fell in Giant City State Park.

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**HARDIN COUNTY --- ELIZABETHTOWN [37.45, -88.30]**

	05/08/09 01:05 CST		5K	Hail (1.00 in)
	05/08/09 01:09 CST		0	Source: Trained Spotter

Large hail lasted about four minutes. The hail was accompanied by strong winds. Some cars were dented.

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**JOHNSON COUNTY --- OZARK [37.53, -88.77]**

	05/08/09 01:24 CST		0	Hail (1.75 in)
	05/08/09 01:24 CST		0	Source: Public

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**MASSAC COUNTY --- 0.5 W METROPOLIS MUNI ARPT [37.18, -88.76]**

	05/08/09 02:00 CST		40K	Thunderstorm Wind (EG 70 kt)
	05/08/09 02:01 CST		0	Source: NWS Storm Survey

This microburst was only about 0.3 miles long and 0.3 miles wide. A couple of large trees were uprooted. Five houses had roof damage, mainly to shingles. Tin on roofs of outbuildings curled up. One garage sustained minor roof and siding damage.

**Scattered thunderstorms persisted through the early morning hours along an axis of increasing moisture and confluence associated with a west-southwesterly low level jet. The activity was located on the southern fringe of a moderately strong east-west mid-level jet. The associated deep-layer shear and warm advection boosted the threat of large hail and isolated wind damage.**

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**JACKSON COUNTY --- 2.0 E SATO [37.90, -89.39], 2.0 NNW VERGENNES [37.93, -89.34]**

## Storm Data and Unusual Weather Phenomena - May 2009

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	05/08/09 10:30 CST		80K	Tornado (EF1, L: 3.11 mi , W: 100 yd)
	05/08/09 10:34 CST		0	Source: NWS Storm Survey

Dozens of large trees were snapped or uprooted. Structural damage occurred to two barns, mainly in the form of roof damage. Power poles were blown over, and one pole snapped. Houses received minor shingle damage. Peak winds were estimated near 95 mph.

### UNION COUNTY --- 2.1 WSW DONGOLA [37.36, -89.21], 0.4 W DONGOLA [37.37, -89.18]

05/08/09 10:30 CST	0.10M	Thunderstorm Wind (EG 65 kt)
05/08/09 10:30 CST	0	Source: Emergency Manager

Three residences were damaged. One of the residences was a mobile home that was moved two feet off its foundation. The home was tied down, which prevented it from rolling. The frame of a neighboring mobile home was bent, its windows were blown out, and the porch was destroyed. Shingles and siding were blown off a house. A large garage sustained extensive damage, mainly to the roof. An outbuilding was blown over. A barn and a shed were destroyed. A calf was killed inside the barn. An antenna tower was blown over. A satellite dish was blown onto a vehicle. Many large trees, power lines, and a power pole were down.

### WILLIAMSON COUNTY --- COLP [37.80, -89.08], HERRIN [37.80, -89.03]

05/08/09 10:39 CST	0	Hail (1.75 in)
05/08/09 10:44 CST	0	Source: Trained Spotter

### JACKSON COUNTY --- 1.4 SSW RADDLE [37.75, -89.59], 1.1 SSW RADDLE [37.76, -89.59]

05/08/09 10:51 CST	0	Tornado (EF0, L: 0.36 mi , W: 30 yd)
05/08/09 10:52 CST	0	Source: Law Enforcement

The reported tornado briefly touched down in a field and caused no known damage.

### WILLIAMSON COUNTY --- MARION [37.73, -88.93]

05/08/09 11:01 CST	0	Heavy Rain
05/08/09 12:00 CST	0	Source: Emergency Manager

Ponding of water occurred throughout Marion. Visibility was down to one block at times in heavy rain.

### PERRY COUNTY --- 1.1 W WINKLE [38.15, -89.50], 3.2 W PYATTS [38.00, -89.43], 0.9 NNW OLD DUQUOIN [37.98, -89.19], 2.2 SE SUNFIELD [38.05, -89.20]

05/08/09 11:02 CST	0	Flash Flood (due to Heavy Rain)
05/08/09 15:00 CST	0	Source: Trained Spotter

Water was over roadways around the county. Many rural roads were closed due to high water over them. Flash flooding occurred on U.S. Route 51 in DuQuoin. In Pinckneyville, three-quarters of an inch of rain fell in less than thirty minutes.

### FRANKLIN COUNTY --- 3.3 WNW SESSER [38.12, -89.10], 3.3 S MULKEYTOWN [37.92, -89.12], 1.3 ENE PARRISH [37.94, -88.80], 1.1 N EWING [38.10, -88.85]

05/08/09 11:20 CST	10K	Flash Flood (due to Heavy Rain)
05/08/09 15:00 CST	0	Source: Emergency Manager

Widespread flooding was reported over many county roads. Extensive street flooding occurred in West Frankfort. In Christopher, a home was surrounded by floodwater, and a nearby outbuilding was flooded.

### UNION COUNTY --- WOLF LAKE [37.50, -89.43], ALTO PASS [37.57, -89.33]

05/08/09 11:40 CST	0.25M	Thunderstorm Wind (EG 65 kt)
05/08/09 12:30 CST	0	Source: Newspaper

Northwest parts of the county were struck hardest by very strong winds associated with the "comma head" of a bow echo. Widespread tree and power line damage occurred. The most intense destruction was in the Wolf Lake and Alto Pass areas. About 25 homes sustained damage in the county. Power outages were widespread. Numerous trees were snapped along Illinois Route 127, mainly north of Anna. The highway was closed while fire and highway personnel worked to clear it. A large tree fell in Anna, taking down power lines and a couple utility poles.

### JACKSON COUNTY --- 1.5 NW NEUNERT [37.74, -89.57], 2.0 S REEDS [37.74, -89.17]

05/08/09 11:52 CST	1	0.10B	Thunderstorm Wind (EG 92 kt)
05/08/09 12:45 CST	6	0	Source: NWS Storm Survey

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<p>Widespread wind damage occurred across Jackson County. Widespread damage to trees, power lines, and structures occurred as the "comma head" of a bow echo moved east across the county. In the city of Carbondale alone, officials reported 34 properties were deemed total losses from the storm. All but nine of those properties were mobile homes. Damage in the city alone (excluding Southern Illinois University) was estimated near 3 million dollars. Officials estimated about 3,000 trees were down or damaged in Carbondale alone, including the campus of Southern Illinois University. Officials in Murphysboro reported 17 dwellings in that city were total losses. One mobile home was blown over onto a car. Murphysboro officials also reported a police cruiser, a truck, and a mobile command center were destroyed. The city's public works garage was shifted off its foundation, and the city police station was damaged. The peak gust recorded by the automated system at the Carbondale airport was 81 mph before the system failed. An observer at the airport visually observed a separate anemometer located on the rooftop reach 106 mph. The automated system measured a sustained wind of 68 mph before failing. Numerous permanent structures and vehicles were damaged countywide. Small outbuildings were destroyed. The roof of a school collapsed. Carbondale was virtually impassable due to debris. One fatality occurred on Old Route 13 in Murphysboro when a large tree limb fell on a home, knocking an elderly man down a flight of stairs and causing a severe head injury. Emergency responders were delayed by blocked roads. A state disaster declaration was granted for Jackson County. A curfew and state of emergency was declared. Cleanup was expected to take most or all of the summer. Hundreds of trees were blown down in parks, which were closed indefinitely. The preliminary damage estimate for Southern Illinois University was 5 million dollars. Many buildings on campus sustained roof damage. The storm blew out nearly 100 windows in residence halls. Countywide, efforts to restore power were complicated by swampy fields, mud, and downed trees. Eighty-seven percent of the county was without power at the peak of the outages. Widespread power and telephone outages complicated recovery efforts. Most roads were blocked by debris and downed trees. Gas stations were closed in many areas, adding to problems obtaining fuel for generators. Red Cross shelters were opened in Carbondale and Murphysboro. Major grocery stores were closed for at least 12 to 24 hours, and much of their frozen food was lost. Most communication by cell phone and land line was impossible.</p>				

Direct Fatalities: M87PH

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**HAMILTON COUNTY --- 3.8 WSW DELAFIELD [38.14, -88.67], 2.4 SSW RURAL HILL [37.94, -88.67], 2.4 N BROUGHTON [37.96, -88.45], 1.6 NW THACKERAY [38.14, -88.47]**

05/08/09 12:00 CST	10K	Flash Flood (due to Heavy Rain)
05/08/09 15:00 CST	0	Source: Emergency Manager

Widespread flash flooding of many roads occurred from Mcleansboro south. A vehicle was stranded in floodwaters under the viaduct on Illinois Route 14 in Mcleansboro. The occupants were on top of the roof of their car. Rescue personnel pushed the car to safety. Another vehicle was stuck in floodwaters near a bridge in the southeast part of the county. The motorist did not require assistance.

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**JEFFERSON COUNTY --- 0.2 WNW CRAVAT [38.42, -89.08], 2.6 NW WALTONVILLE [38.25, -89.08], 1.7 N BELLE RIVE [38.25, -88.74], 0.7 WSW HARMONY [38.41, -88.79]**

05/08/09 12:00 CST	0	Flash Flood (due to Heavy Rain)
05/08/09 15:00 CST	0	Source: Department of Highways

High water was reported across many county roads.

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**PERRY COUNTY --- WILLISVILLE [37.98, -89.58], 2.1 ESE DU QUOIN [38.00, -89.20]**

05/08/09 12:00 CST	5K	Thunderstorm Wind (EG 61 kt)
05/08/09 12:45 CST	0	Source: NWS Storm Survey

Across far southern parts of the county including DuQuoin, numerous trees, limbs, and power lines were blown down. This resulted in power outages, though of a much shorter duration than counties to the south. Sheet metal roofing was blown off a house in DuQuoin. This damage occurred on the northern fringe of the widespread high winds associated with a derecho.

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**JACKSON COUNTY --- 4.0 S ELKVILLE [37.84, -89.23], 0.5 SSE WARD [37.84, -89.23]**

05/08/09 12:12 CST	10K	Tornado (EF0, L: 0.14 mi , W: 40 yd)
05/08/09 12:13 CST	0	Source: Newspaper

Damage was reported at a coal company, where an office trailer was blown off its foundation. There were several eyewitness accounts of a tornado. Peak winds were estimated near 70 mph.

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**FRANKLIN COUNTY --- WEST FRANKFORT [37.90, -88.92], 2.3 N ROYALTON [37.90, -89.12]**

05/08/09 12:15 CST	6M	Thunderstorm Wind (EG 74 kt)
05/08/09 13:15 CST	0	Source: NWS Storm Survey

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<p>Widespread damaging winds across southern Franklin County caused lots of power outages. At the peak of the outages, 49 percent of the county was without power. A state disaster declaration was granted for Franklin County. Among the hardest hit cities was West Frankfort. Peak winds were estimated around 60 mph at Benton, but from 80 to 90 mph around West Frankfort and near the Williamson County line. Thirteen homes were destroyed beyond repair. Damage assessments indicated 184 dwellings sustained damage countywide. Of that number, 114 sustained minor damage, and 70 needed moderate repairs. Numerous trees were blown down, blocking some of the main roads. Near the Williamson County line, trees were blown across the southbound lanes of Interstate 57. Secondary roads stayed blocked for longer periods of time. The hardest hit areas were in and near Royalton, Zeigler, Orient, West Frankfort, and Thompsonville. In Christopher, sheds and carports were overturned, and trees were down on roads and power lines. An uprooted tree landed on a house. The community park in West Frankfort was closed for a little over a week due to downed trees and fences. Some schools were closed for part of the week following the storm.</p>				

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### JOHNSON COUNTY --- 1.8 N GOREVILLE [37.58, -88.97], 2.7 W PARKER [37.56, -88.85]

05/08/09 12:15 CST	2K	Thunderstorm Wind (EG 50 kt)
05/08/09 12:50 CST	0	Source: NWS Storm Survey

Scattered tree limbs and a few trees were blown down on the northern edge of the county. The vast majority of the damage associated with the "comma head" of a bow echo passed north of the county.

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### WILLIAMSON COUNTY --- CARTERVILLE [37.75, -89.08], 0.7 ENE PAULTON [37.75, -88.79]

05/08/09 12:15 CST	0.18B	Thunderstorm Wind (EG 87 kt)
05/08/09 13:15 CST	1	Source: NWS Storm Survey

Widespread wind damage occurred countywide. Extensive tree and power line damage resulted in power outages up to several days long. Many power poles were snapped. Countywide, efforts to restore power were complicated by swampy fields, mud, and downed trees. Ninety-five percent of the county was without power at the peak of the outages. Numerous permanent structures were damaged, including major businesses in downtown Marion and Herrin. A total of 33 homes were heavily damaged or destroyed. It is estimated that over 10,000 homes in the county received minor damage (less than 50,000 dollars per house). Gas leaks were common. Most communication by phone was impossible, including cell phones. Stores were closed, making groceries and gas very difficult to obtain locally in the immediate aftermath of the storm. Travel was nearly impossible due to debris and trees blocking roads. While about two dozen people were treated for storm-related injuries at local hospitals, all but one of them was due to post-storm cleanup. Many school facilities were damaged. The roof of Carterville High School was severely damaged. Several windows were blown out of the school. Minor damage occurred at athletic facilities, including the roof blown off a baseball dugout. Many outbuildings and small structures were destroyed across the county. In Carterville, a garage was lifted and dropped on a vehicle. Many vehicles countywide were damaged or destroyed by falling tree and building debris. A state disaster declaration was granted. A dusk-to-dawn curfew was imposed, and a state of emergency was declared. The Williamson County airport near Marion reported a peak gust of 86 mph. Based on the most severe structural damage east of the airport, peak winds were estimated by storm surveyors close to 100 mph. There was extensive damage at the airport, including hangar buildings. A television station on Route 13 was knocked off the air due to structural and roof damage. All along Route 13, signs were blown down, power poles were down, and windows were smashed. Car dealerships along Route 13 sustained damage due to signs falling on vehicles and windows being blown out. Numerous structures sustained varying degrees of roof damage. A large hotel near the Interstate 57 interchange sustained major roof damage. Many trees were down along Interstate 57 from the Route 13 interchange northward, blocking the southbound lanes. Semis on the interstate were overturned or blown off the highway, causing extended traffic delays. One of the drivers of the semis was seriously injured. A tree fell on a van on the interstate. Damaged or destroyed trees were too numerous to count. Cleanup was expected to last through Labor Day, according to the Mayor of Marion.

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### FRANKLIN COUNTY --- 1.5 N ROYALTON [37.89, -89.12], 1.7 N ROYALTON [37.89, -89.12]

05/08/09 12:18 CST	0	Tornado (EF0, L: 0.29 mi , W: 40 yd)
05/08/09 12:19 CST	0	Source: Emergency Manager

This brief tornado was photographed by emergency management personnel. Leaves were observed in the rotation. No damage was located.

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### HAMILTON COUNTY --- 5.4 WNW RURAL HILL [37.99, -88.75], 0.8 N WALPOLE [37.94, -88.55]

05/08/09 12:30 CST	3K	Thunderstorm Wind (EG 52 kt)
05/08/09 13:30 CST	0	Source: NWS Storm Survey

Hamilton County avoided the major wind impact that occurred in places to the south and southwest from a major derecho. There were a few trees down in the Walpole area, but no structural damage was reported.

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### SALINE COUNTY --- 5.1 SW NEWHOPE [37.73, -88.75], 2.3 WSW COTTAGEGROVE [37.74, -88.44]

05/08/09 12:30 CST	4.50M	Thunderstorm Wind (EG 78 kt)
05/08/09 13:30 CST	0	Source: NWS Storm Survey

## Storm Data and Unusual Weather Phenomena - May 2009

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<p>Widespread wind damage occurred across the county. The pockets of greatest damage were in northern parts of the county including Galatia and Raleigh, as well as southwestern parts around Carrier Mills. Harrisburg itself escaped the worst of the damage, and power outages there only affected several hundred customers. Winds were estimated near 90 mph in the Harco area. Extensive power outages lasted three to six days in the hardest hit areas, including Galatia. The power losses rendered pumping stations that supply water inoperable. Many structures were damaged. Every street in Galatia had trees down across streets, houses, vehicles, or outbuildings. Two homes in Galatia received major damage. Barns were destroyed in the Harco area. A mobile home used as a school for the Amish blew off its foundation. Some roofs were blown off. Other structures were damaged by falling trees. A semi was blown over north of Harrisburg on Illinois 34. Emergency responders had difficulty reaching the scene due to downed trees. Many roads were closed by downed trees and power lines, including major routes such as Illinois 34 and U.S. Highway 45. A state disaster declaration included Saline County.</p>				
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<b>FRANKLIN COUNTY --- 1.7 SSW THOMPSONVILLE [37.90, -88.78], 2.4 NNW KEGLEY [37.86, -88.76]</b>				
	05/08/09 12:45 CST		0	Tornado (EF1, L: 2.41 mi , W: 150 yd)
	05/08/09 12:48 CST		0	Source: NWS Storm Survey
<p>The tornado resulted in a swath of downed trees in rural areas. Peak winds were estimated near 90 mph. The tornado path continued into Williamson County.</p>				
<hr/>				
<b>WILLIAMSON COUNTY --- 3.2 NNE CORINTH [37.86, -88.76], 2.6 E CORINTH [37.83, -88.73]</b>				
	05/08/09 12:48 CST		0	Tornado (EF1, L: 3.10 mi , W: 150 yd)
	05/08/09 12:51 CST		0	Source: NWS Storm Survey
<p>The tornado continued into Williamson County from Franklin County. There was a swath of downed trees in rural areas. Peak winds around 90 mph occurred in the Franklin County portion of the track.</p>				
<p><b>A mature, very intense derecho moved rapidly east along a stationary front across the Mid Mississippi Valley into the Lower Ohio Valley. With a very moist and unstable atmosphere, along with strongly veering winds aloft, embedded tornadic supercells were associated with the derecho. Widespread damaging winds were the primary impact. Nearly all the damage in southern Illinois was associated with the comma head at the northern end of the bow echo. Winds were measured slightly over 100 mph under the comma head as it passed through the Carbondale area. In addition to damaging winds, the slow-moving storm complex dumped very heavy rain that flooded roads.</b></p>				
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<b>WHITE COUNTY --- CARMi [38.08, -88.17], 1.5 SSE CARMi MUNI ARPT [38.08, -88.14], 1.9 SE CARMi [38.06, -88.15], 1.5 S CARMi [38.06, -88.17]</b>				
	05/09/09 16:00 CST		0	Flood (due to Heavy Rain)
	05/31/09 11:00 CST		3K	Source: River/Stream Gage
<p>Minor flooding of the Little Wabash River occurred for most of the month. At the Carmi gage, where flood stage is 27 feet, the river crested at 29.37 feet on the 22nd. Low-lying and bottomland areas were flooded. Some county roads were inundated.</p>				
<p><b>Several rounds of heavy rain over much of the Wabash River Valley caused many rivers to rise above flood stage. May continued the active pattern begun in April. Several of these events produced very heavy rainfall. Rainfall was one to two inches above normal in most spots for the month.</b></p>				
<hr/>				
<b>WAYNE COUNTY --- 3.3 E MAYBERRY [38.27, -88.49]</b>				
	05/14/09 01:00 CST		15K	Thunderstorm Wind (EG 61 kt)
	05/14/09 01:00 CST		0	Source: Law Enforcement
<p>Three trees were uprooted, and two trees had their tops blown out. A mobile home was moved off blocks. The mobile home was not tied down.</p>				
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<b>WILLIAMSON COUNTY --- HURST [37.83, -89.15]</b>				
	05/14/09 01:38 CST		0	Hail (1.00 in)
	05/14/09 01:38 CST		0	Source: Emergency Manager
<hr/>				
<b>SALINE COUNTY --- 7.0 W HARRISBURG [37.73, -88.68]</b>				
	05/14/09 01:58 CST		0	Thunderstorm Wind (EG 52 kt)
	05/14/09 01:58 CST		0	Source: Law Enforcement
<p>A patrol officer estimated 60 mph winds with debris in the air.</p>				
<hr/>				
<b>SALINE COUNTY --- 1.0 W HARRISBURG [37.73, -88.57], 1.0 E HARRISBURG [37.73, -88.53]</b>				
	05/14/09 02:07 CST		0.40M	Thunderstorm Wind (EG 83 kt)
	05/14/09 02:10 CST		0	Source: NWS Storm Survey

## Storm Data and Unusual Weather Phenomena - May 2009

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<p>This microburst struck a 10-block long area in the city of Harrisburg, from the southwest edge of town to the southeast side. The damage ended after striking the commercial strip on U.S. Highway 45. The damage swath was about one-half mile wide. Porches were blown off a couple of houses. Trees up to two feet in diameter fell on houses. Some power lines were down. The wind caused some direct minor structural damage to houses. The press box at a football field was blown out of the stands. A construction trailer was blown on its side. Storage sheds and outbuildings were blown over, including one shed that struck and damaged a few vehicles. A gas station canopy was heavily damaged.</p>				

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### JEFFERSON COUNTY --- 2.0 E WALTONVILLE [38.22, -89.01]

05/14/09 02:15 CST	0	Heavy Rain
05/14/09 03:30 CST	0	Source: Emergency Manager

A roadway was flooded.

**A line of severe thunderstorms moved slowly southeast through the early morning hours. These storms moved through a very moist and unstable atmosphere. Small-scale bow echoes produced locally damaging winds and isolated large hail.**

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### WABASH COUNTY --- 1.7 SW LINN [38.53, -87.80], 2.2 ENE ALLENDALE [38.54, -87.68], 2.7 SE ALLENDALE [38.50, -87.68], 1.8 NW PATTON [38.50, -87.78]

05/27/09 19:07 CST	0	Flash Flood (due to Heavy Rain)
05/27/09 20:00 CST	0	Source: Law Enforcement

Roads were covered with water, causing very hazardous driving. The fire department was dispatched to barricade water-covered roads in the Allendale area. Route 1 was covered with flowing water.

**Scattered thunderstorms developed in a very unstable atmosphere in the heat of the afternoon. Remnant upper level vorticity centers originating from convective complexes over Arkansas and Missouri helped generate these storms. Copious amounts of rain fell in isolated storms.**

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## INDIANA, Southwest

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### PIKE COUNTY --- 0.9 NNW PETERSBURG [38.51, -87.29], 1.8 NNE PETERSBURG [38.52, -87.26], 1.4 NE PETERSBURG [38.52, -87.27], 0.6 N PETERSBURG [38.51, -87.28]

05/02/09 06:30 EST	10K	Flood (due to Heavy Rain)
05/25/09 18:00 EST	50K	Source: River/Stream Gage

Minor to moderate flooding of the White River occurred for most of the month. At the Petersburg gage, where flood stage is 16 feet, the river crested at 23.77 feet on the 19th. Significant agricultural damage occurred. Extensive flooding was in progress, affecting agricultural and rural residential areas. Several rural county roads extensively flooded. A few residents evacuated river cabins. Several small oil fields were inaccessible. State Road 257 was flooded.

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### GIBSON COUNTY --- 1.8 NE HAZLETON [38.50, -87.51], 1.6 NE HAZLETON [38.49, -87.51], 1.0 NNW HAZLETON [38.49, -87.54], 1.3 NNW HAZLETON [38.50, -87.54]

05/02/09 19:00 CST	10K	Flood (due to Heavy Rain)
05/26/09 17:00 CST	50K	Source: River/Stream Gage

Minor to moderate flooding of the White River occurred for most of the month. At the Hazleton gage, where flood stage is 16 feet, the river crested at 24.20 feet on the 21st. Significant agricultural damage occurred. Some river cabin residents were evacuated. Most local roads flooded. Several oil fields were inaccessible. Floodgates were installed at Hazleton, and the community softball field was inundated.

**Several rounds of heavy rain over much of the Wabash River Valley caused many rivers to rise above flood stage. May continued the active pattern begun in April. Several of these events produced very heavy rainfall. Rainfall was one to two inches above normal in most spots for the month.**

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### GIBSON COUNTY --- 1.1 W EAST MT CARMEL [38.40, -87.75], 1.8 WSW EAST MT CARMEL [38.39, -87.76], 1.6 WSW EAST MT CARMEL [38.39, -87.76], 1.0 W EAST MT CARMEL [38.40, -87.75]

05/03/09 17:00 CST	0	Flood (due to Heavy Rain)
05/29/09 14:00 CST	30K	Source: River/Stream Gage

Moderate flooding of the Wabash River occurred for most of the month. At the Mt. Carmel gage, where flood stage is 19 feet, the river crested at 26.78 feet on the 22nd. Numerous local river roads were flooded. Extensive agricultural flooding was in progress in areas not protected by levees. Flood waters began to affect residents of East Mt. Carmel.

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### POSEY COUNTY --- 0.6 WNW NEW HARMONY [38.13, -87.94], 1.2 N NEW HARMONY [38.15, -87.93], 1.2 NNE NEW HARMONY [38.15, -87.92], 0.3 NNE NEW HARMONY [38.13, -87.93]

## Storm Data and Unusual Weather Phenomena - May 2009

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	05/04/09 17:00 CST		0	Flood (due to Heavy Rain)
	05/30/09 12:00 CST		20K	Source: River/Stream Gage

Minor flooding of the Wabash River occurred for most of the month. At the New Harmony gage, where flood stage is 15 feet, the river crested at 18.65 feet on the 24th. Low ground was flooded along the river, including agricultural fields.

Several rounds of heavy rain over much of the Wabash River Valley caused many rivers to rise above flood stage. May continued the active pattern begun in April. Several of these events produced very heavy rainfall. Rainfall was one to two inches above normal in most spots for the month.

**(IN-Z081) GIBSON, (IN-Z082) PIKE, (IN-Z085) POSEY, (IN-Z086) VANDERBURGH, (IN-Z087) WARRICK, (IN-Z088) SPENCER**

05/06/09 22:00 CST	0	Dense Fog
05/07/09 07:00 CST	0	

Widespread dense fog formed over southwest Indiana as a result of nocturnal cooling of a moist atmosphere. Visibility was 100 feet in both Gibson and Pike Counties, and one-quarter mile or less across the rest of southwest Indiana. A spotter at Petersburg estimated visibility as low as 20 feet shortly before sunrise.

**GIBSON COUNTY --- FT BRANCH [38.25, -87.58]**

05/08/09 12:30 CST	0	Heavy Rain
05/08/09 14:30 CST	0	Source: Trained Spotter

Some urban street flooding was reported, along with some water over county roads. A spotter measured 1.80 inches in two hours.

**POSEY COUNTY --- 0.7 E RAPTURE [38.15, -87.82], 1.1 E STEWARTSVILLE [38.18, -87.81], 0.8 ENE POSEYVILLE [38.18, -87.77], 0.8 SSE POSEYVILLE [38.16, -87.77]**

05/08/09 14:00 CST	0	Flash Flood (due to Heavy Rain)
05/08/09 17:00 CST	0	Source: Trained Spotter

Water was running over most roadways.

**SPENCER COUNTY --- ROCKPORT [37.88, -87.05], 1.5 SE NEWTONVILLE [37.99, -86.93], 1.2 NW CENTERVILLE [38.01, -87.09], 1.6 ESE SAND RIDGE [37.89, -87.14]**

05/08/09 14:00 CST	0	Flash Flood (due to Heavy Rain)
05/08/09 17:00 CST	0	Source: Emergency Manager

Extensive flooding was reported on county roadways. Water depths ranged from six to eighteen inches on some roads.

**VANDERBURGH COUNTY --- 0.6 NW HARWOOD [38.01, -87.59], 1.8 N EVANSVILLE [38.01, -87.54], 3.1 SE EVANSVILLE [37.95, -87.51], 1.3 SSW HARWOOD [37.98, -87.59]**

05/08/09 14:00 CST	15K	Flash Flood (due to Heavy Rain)
05/08/09 17:00 CST	0	Source: Emergency Manager

Several roads were closed due to rising water. Water rescues were performed when vehicles stalled in deep water. A valve failure caused sewer water to back into an elementary school. The 15-hour storm total was three inches at Angel Mounds, just southeast of Evansville. More than an inch of rain fell in less than 30 minutes in parts of Evansville.

A mature, very intense derecho moved rapidly east along a stationary front across the Mid Mississippi Valley into the Lower Ohio Valley. Winds along the bowing portion of the derecho weakened significantly before entering southwest Indiana. However, very heavy rain accompanied the system, causing localized flash flooding.

**SPENCER COUNTY --- 3.6 ENE GRANDVIEW [37.94, -86.92], 3.6 E GRANDVIEW [37.94, -86.92], 0.2 SSE GRANDVIEW [37.93, -86.98], 0.3 NNE GRANDVIEW [37.93, -86.98]**

05/09/09 12:00 CST	0	Flood (due to Heavy Rain)
05/16/09 21:00 CST	10K	Source: River/Stream Gage

Minor flooding of the Ohio River occurred. At the Newburgh gage in Warrick County, where flood stage is 38 feet, the river crested at 41.90 feet on the 13th. Agricultural bottomland and low-lying areas were flooded.

**WARRICK COUNTY --- 0.4 S NEWBURGH [37.94, -87.42], 0.9 WSW NEWBURGH [37.94, -87.43], 0.6 WSW NEWBURGH [37.95, -87.43], 0.3 SSW NEWBURGH [37.95, -87.42]**

05/09/09 12:00 CST	0	Flood (due to Heavy Rain)
05/16/09 21:00 CST	10K	Source: River/Stream Gage

## Storm Data and Unusual Weather Phenomena - May 2009

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Minor flooding of the Ohio River occurred. At the Newburgh gage, where flood stage is 38 feet, the river crested at 41.90 feet on the 13th. Agricultural bottomland and low-lying areas were flooded.				

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**POSEY COUNTY --- 0.6 WSW MT VERNON [37.93, -87.91], 1.3 SW MT VERNON [37.92, -87.92], 1.1 SSW MT VERNON [37.92, -87.91], 0.6 SW MT VERNON [37.92, -87.91]**

05/09/09 21:00 CST	0	Flood (due to Heavy Rain)
05/17/09 10:00 CST	20K	Source: River/Stream Gage

Minor flooding of the Ohio River occurred. At the Mount Vernon gage, where flood stage is 35 feet, the river crested at 40.5 feet on the 14th. Farmland and some main roads were flooded in places southwest and west of Mt. Vernon. Agricultural bottomland and low-lying areas were flooded.

**Several rounds of heavy rain over much of the Ohio River Valley caused many rivers to rise above flood stage. May continued the active pattern begun in April. Several of these events produced very heavy rainfall. Rainfall was one to two inches above normal in most spots for the month.**

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**(IN-Z081) GIBSON, (IN-Z082) PIKE**

05/13/09 18:50 CST	70K	Strong Wind (MAX 48 kt)
05/13/09 19:40 CST	0	

**Strong winds developed in association with a line of moderate showers. Trees and power lines were blown down near Arthur in Pike County. Trees and power lines were down in Gibson County. Widespread wind gusts around 55 mph were reported in Gibson County. Power lines and trees were down at Francisco in Gibson County. A vehicle was off the road.**

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**GIBSON COUNTY --- HAUBSTADT [38.20, -87.57], 2.0 E BUCKSKIN [38.23, -87.38]**

05/14/09 02:25 CST	0.30M	Tornado (EF2, L: 10.35 mi , W: 125 yd)
05/14/09 02:39 CST	0	Source: NWS Storm Survey

Maximum winds were estimated near 120 mph at the beginning of the damage path. The most significant damage occurred on a farm on the north side of the Haubstadt Raceway. A 50-foot grain bin was moved off its foundation and destroyed, several large machinery buildings sustained partial losses of roofs and walls, and a race car frame on blocks was moved about 100 feet. Damage intensity decreased eastward along the path. Elsewhere along the path, a barn lost its roof, and several homes received roof damage.

**A line of severe thunderstorms moved slowly southeast through the early morning hours. These storms moved through a very moist and unstable atmosphere. A small-scale bow echo produced a significant tornado.**

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**GIBSON COUNTY --- MACKEY [38.25, -87.38]**

05/30/09 19:42 CST	0	Hail (1.00 in)
05/30/09 19:42 CST	0	Source: Public

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**SPENCER COUNTY --- CHRISNEY [38.02, -87.03]**

05/30/09 20:20 CST	0	Hail (0.88 in)
05/30/09 20:20 CST	0	Source: Broadcast Media

**A couple of severe thunderstorms occurred in the warm sector of a low pressure system centered over northeast Illinois. The atmosphere destabilized with strong daytime heating. Deep layer wind shear of 35 to 45 knots was sufficient for isolated supercells.**

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### KENTUCKY, Southwest

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**BALLARD COUNTY --- 3.7 W OSCAR [37.14, -89.10], 3.4 WNW MONKEYS EYEBROW [37.19, -89.04], 3.8 WNW MONKEYS EYEBROW [37.19, -89.05], 3.8 WNW OSCAR [37.15, -89.10]**

05/05/09 19:00 CST	0	Flood (due to Heavy Rain)
05/26/09 20:00 CST	20K	Source: River/Stream Gage

Moderate flooding of the Ohio River occurred. At the Grand Chain, Illinois gage, where flood stage is 42 feet, the river crested at 51.60 feet on the 12th. Agricultural bottomland and low-lying areas were flooded.

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**MCCRACKEN COUNTY --- 1.3 NNW CECIL [37.12, -88.68], 1.9 N CECIL [37.13, -88.67], 1.0 NE ROWLANDTOWN [37.11, -88.62], 0.6 E ROWLANDTOWN [37.10, -88.62]**

05/09/09 12:00 CST	0	Flood (due to Heavy Rain)
05/20/09 18:00 CST	20K	Source: River/Stream Gage

## Storm Data and Unusual Weather Phenomena - May 2009

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Minor flooding of the Ohio River occurred. At the Paducah gage, where flood stage is 39 feet, the river crested at 42.83 feet on the 12th. Agricultural bottomland and low-lying areas were flooded. Portions of the riverfront park near downtown Paducah were flooded.				

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**HENDERSON COUNTY --- 1.3 ENE CARLINBURG [37.89, -87.30], 0.9 E WELLS STORE [37.93, -87.38], 0.8 SE WELLS STORE [37.92, -87.39], 0.8 ENE CARLINBURG [37.88, -87.31]**

	05/09/09 18:00 CST	0	Flood (due to Heavy Rain)
	05/16/09 14:00 CST	20K	Source: River/Stream Gage

Minor flooding of the Ohio River occurred. At the Newburgh, IN gage, where flood stage is 38 feet, the river crested at 41.90 feet on the 13th. Agricultural bottomland and low-lying areas were flooded.

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**LIVINGSTON COUNTY --- BIRDSVILLE [37.22, -88.45], 0.2 WSW BIRDSVILLE [37.22, -88.45], 1.0 NNW SMITHLAND [37.14, -88.41], 1.3 NNW SMITHLAND [37.15, -88.41]**

	05/10/09 18:00 CST	0	Flood (due to Heavy Rain)
	05/18/09 10:00 CST	20K	Source: River/Stream Gage

Minor flooding of the Ohio River occurred. At the Smithland gage, where flood stage is 40 feet, the river crested at 41.33 feet on the 12th. Agricultural bottomland and low-lying areas were flooded. A private campground at Birdsville was flooded.

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**UNION COUNTY --- 1.6 N UNIONTOWN [37.79, -87.93], 1.7 N UNIONTOWN [37.79, -87.93], 0.7 NW UNIONTOWN [37.78, -87.94], 0.5 NNW UNIONTOWN [37.78, -87.93]**

	05/10/09 18:00 CST	0	Flood (due to Heavy Rain)
	05/18/09 10:00 CST	20K	Source: River/Stream Gage

Minor flooding of the Ohio River occurred. At J.T. Myers Lock and Dam near Uniontown, where flood stage is 37 feet, the river crested at 40.80 feet on the 15th. Agricultural bottomland and low-lying areas were flooded.

**Several rounds of heavy rain over much of the Ohio River Valley caused many rivers to rise above flood stage. May continued the active pattern begun in April. Several of these events produced very heavy rainfall. Rainfall was one to two inches above normal in most spots for the month.**

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**(KY-Z014) UNION, (KY-Z018) HENDERSON, (KY-Z019) DAVIESS**

	05/06/09 22:00 CST	0	Dense Fog
	05/07/09 06:00 CST	0	

**Widespread dense fog formed over northwest Kentucky as a result of nocturnal cooling of a moist atmosphere. Visibility was one-quarter mile or less.**

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**FULTON COUNTY --- 3.3 WNW TYLER [36.52, -89.41], 3.4 NW SASSAFRAS RIDGE [36.58, -89.38], 3.1 NW SASSAFRAS RIDGE [36.58, -89.37], 3.1 WNW TYLER [36.52, -89.40]**

	05/07/09 22:00 CST	0	Flood (due to Heavy Rain)
	05/25/09 02:00 CST	20K	Source: River/Stream Gage

Minor flooding of the Mississippi River occurred for most of the month of May. At the New Madrid, Missouri gage, where flood stage is 34 feet, the river crested at 39.11 feet on the 15th. Agricultural bottomland and low-lying areas were flooded.

**Several rounds of heavy rain over much of the Mississippi River Valley caused many rivers to rise above flood stage. May continued the active pattern begun in April. Several of these events produced very heavy rainfall. Rainfall was one to two inches above normal in most spots for the month.**

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**CRITTENDEN COUNTY --- TOLU [37.43, -88.25], MARION [37.33, -88.08]**

	05/08/09 01:09 CST	0	Hail (2.00 in)
	05/08/09 01:24 CST	0	Source: Fire Department/Rescue

Golf-ball hail fell near Tolu. Hail bigger than golf balls fell at the Marion Police Department.

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**LIVINGSTON COUNTY --- 1.0 N SMITHLAND [37.14, -88.40]**

	05/08/09 02:10 CST	60K	Thunderstorm Wind (EG 70 kt)
	05/08/09 02:11 CST	1	Source: NWS Storm Survey

A poorly tied-down mobile home was moved several feet. An occupant of the mobile home sustained minor to moderate injuries. Two metal sheds were blown down. A number of trees were either snapped or uprooted. Several telephone poles were blown over. The microburst damage area was about one-half mile in length and width.

## Storm Data and Unusual Weather Phenomena - May 2009

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>HOPKINS COUNTY --- MORTONS GAP [37.23, -87.48]</b>				
	05/08/09 02:15 CST		0	Hail (1.00 in)
	05/08/09 02:15 CST		0	Source: Trained Spotter
<b>MARSHALL COUNTY --- 2.0 WSW CALVERT CITY [37.02, -88.38], 1.3 WSW GILBERTSVILLE ARPT [37.01, -88.32]</b>				
	05/08/09 02:35 CST		0.15M	Thunderstorm Wind (EG 78 kt)
	05/08/09 02:38 CST		0	Source: NWS Storm Survey
A microburst about 3 miles long and one-third of a mile wide caused extensive damage. Hundreds of tree limbs were blown down, along with numerous trees. The roof was partially off a business. Several homes sustained roof damage. Numerous sheds and carports were destroyed.				
<b>Scattered thunderstorms persisted through the early morning hours along an axis of increasing moisture and confluence associated with a west-southwesterly low level jet. The activity was located on the southern fringe of a moderately strong east-west mid-level jet. The associated deep-layer shear and warm advection boosted the threat of large hail and isolated wind damage.</b>				
<b>GRAVES COUNTY --- 0.5 SE FANCY FARM [36.79, -88.77]</b>				
	05/08/09 11:15 CST		50K	Thunderstorm Wind (EG 78 kt)
	05/08/09 11:15 CST		0	Source: NWS Storm Survey
A microburst along the leading edge of a bow echo produced substantial damage at a farm. The metal top was blown off a cinder block silo. There was siding damage at a residence. A large section of a chick house lost its roof. The path length was about 500 yards, and the width was only 50 yards.				
<b>CHRISTIAN COUNTY --- HOPKINSVILLE [36.85, -87.48]</b>				
	05/08/09 12:30 CST		0	Heavy Rain
	05/08/09 13:30 CST		0	Source: Emergency Manager
Minor street flooding was reported.				
<b>HOPKINS COUNTY --- MORTONS GAP [37.23, -87.48], 0.9 N HANSON [37.43, -87.48]</b>				
	05/08/09 12:30 CST		10K	Heavy Rain
	05/08/09 14:00 CST		0	Source: Trained Spotter
In Madisonville, stormwater ditches became clogged with debris, causing local flooding of yards, streets, and some outbuildings. In one neighborhood, water was up to seven inches deep in a garage. Several roads near Hanson were briefly under water. At Mortons Gap, water was flowing across U.S. Highway 41.				
<b>CHRISTIAN COUNTY --- HOPKINSVILLE [36.85, -87.48]</b>				
	05/08/09 12:50 CST		0	Thunderstorm Wind (EG 52 kt)
	05/08/09 12:50 CST		0	Source: Trained Spotter
A trained spotter estimated these strong wind gusts at Western State Hospital.				
<b>MCLEAN COUNTY --- 0.9 NE CALHOUN [37.54, -87.26], 2.2 SSE BUEL [37.52, -87.17], 0.8 SE BUEL [37.54, -87.17], 2.3 NE CALHOUN [37.56, -87.24]</b>				
	05/08/09 13:00 CST		0	Flash Flood (due to Heavy Rain)
	05/08/09 17:30 CST		0	Source: Emergency Manager
Water was over many roads, including Highway 136.				
<b>MUHLENBERG COUNTY --- 1.5 E CENTRAL CITY [37.30, -87.10], 1.1 SSE SOUTH CARROLLTON [37.32, -87.14], 1.0 S LUZERNE [37.21, -87.22], 0.7 SE GREENVILLE [37.19, -87.17]</b>				
	05/08/09 13:15 CST		8K	Flash Flood (due to Heavy Rain)
	05/08/09 17:30 CST		0	Source: Emergency Manager
Many roads were flooded in Powderly and Central City. Near Greenville, three to four feet of water flooded a farm, and horses had to be evacuated.				
<b>CRITTENDEN COUNTY --- MARION [37.33, -88.08]</b>				
	05/08/09 13:30 CST		0	Heavy Rain
	05/08/09 16:00 CST		0	Source: Newspaper
Due to creek flooding, about five feet of water covered a helipad at a medical facility. The flooding there typically occurs three or four times a year.				
<b>UNION COUNTY --- MORGANFIELD [37.68, -87.92]</b>				

## Storm Data and Unusual Weather Phenomena - May 2009

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	05/08/09 13:38 CST		10K	Thunderstorm Wind (EG 50 kt)
	05/08/09 13:38 CST		0	Source: Trained Spotter

Some trees were blown down, mostly small ones.

**A mature, very intense derecho moved rapidly east along a stationary front across the Mid Mississippi Valley into the Lower Ohio Valley. Winds along the bowing portion of the derecho weakened significantly before entering western Kentucky. Near the comma head on the northern end of the bow, some minor damage occurred in Union County. However, there was significantly less damage than what occurred with the comma head in southern Illinois. Very heavy rain accompanied the system, causing localized flash flooding.**

**CHRISTIAN COUNTY --- 3.1 NE MERRITTSTOWN [36.89, -87.53], 1.8 NE CHURCH HILL [36.82, -87.55], 0.6 W CASKY [36.82, -87.44], 2.2 ENE GAINSVILLE [36.88, -87.43]**

05/08/09 23:00 CST	0	Flash Flood (due to Heavy Rain)
05/09/09 04:00 CST	0	Source: Trained Spotter

Flooding was reported in several places in Hopkinsville, including spots on Canton Pike, Fort Campbell Boulevard, and West Seventh Street. Water was over at least a few other roads, including one lane of Highway 68/80 East at Western State Hospital. The 24-hour rainfall total from a spotter on the northeast side of Hopkinsville was 3.40 inches. A co-operative observer near Fort Campbell reported 3.82 inches over the same time period.

**MARSHALL COUNTY --- 1.6 NW OLIVE [36.81, -88.27], 2.4 E BENTON ARPT [36.78, -88.18], 2.4 E HARDIN [36.76, -88.26], 2.4 ESE BREWERS [36.76, -88.39], 0.7 SSE SHARPE [36.96, -88.44], 2.3 ENE DOGTOWN [36.87, -88.28]**

05/08/09 23:30 CST	0.15M	Flash Flood (due to Heavy Rain)
05/09/09 04:00 CST	0	Source: Emergency Manager

Considerable flooding was reported, mostly in Benton and in southern areas of the county. Numerous homes and businesses were flooded, especially in and around Benton. A shopping plaza containing a newspaper, restaurant, and tax business was flooded with four inches of rushing water. Numerous roads were covered by water, including Highway 408. Some places in Benton were under three to four feet of water. Vehicles were half submerged in parking lots. Benton firefighters rescued numerous motorists whose vehicles stalled in floodwaters. At least two families were evacuated from flooded homes. Highway 348 outside Benton was impassable. In northwest parts of the county, a portion of Elva Road was washed out. Near Gilbertsville, a bridge on a secondary road was submerged. A co-operative observer at Aurora measured a 24-hour rainfall total of 4.34 inches.

**TRIGG COUNTY --- 5.5 NNE TRIGG FURNACE [36.95, -87.88], 5.9 NNW ROCKCASTLE [36.98, -88.00], 4.2 NNW ROCKCASTLE [36.95, -88.00], 4.4 NNE TRIGG FURNACE [36.94, -87.88]**

05/08/09 23:30 CST	0	Flash Flood (due to Heavy Rain)
05/09/09 02:00 CST	0	Source: Emergency Manager

Several roads were impassable due to flooding, including Highways 274 and 276. A co-operative observer at Cadiz measured a 24-hour rainfall total of 3.77 inches. Another co-op observer about four miles southwest of Cadiz measured 2.65 inches.

**CALDWELL COUNTY --- 2.1 SSW FRIENDSHIP [37.02, -87.76]**

05/09/09 00:00 CST	0	Heavy Rain
05/09/09 06:00 CST	0	Source: COOP Observer

The 24-hour rainfall total ending at 7 A.M. May 9th was 1.89 inches.

**CARLISLE COUNTY --- 1.5 S WINNFORD [36.90, -89.07], 1.8 NE BERKELEY [36.82, -89.08], 2.7 NW MILBURN [36.83, -88.91], 1.5 SW CUNNINGHAM [36.90, -88.90]**

05/09/09 00:30 CST	20K	Flash Flood (due to Heavy Rain)
05/09/09 04:00 CST	0	Source: County Official

A bridge approach was washed out on Kentucky 1741 near the intersection with Kentucky 1022. U.S. Highway 62 was open to traffic but restricted to one lane at mile markers 3 and 10. Several roads had water over them, making them impassable in places. These roads included Highways 408, 1016, 1087, and 1031.

**GRAVES COUNTY --- 1.7 NNW LOWES [36.90, -88.78], 1.5 WSW LOWES [36.88, -88.80], 1.6 ENE PRYORSBURG [36.69, -88.67], 2.3 SSE MAYFIELD GRAVES ARPT [36.74, -88.57]**

05/09/09 00:40 CST	75K	Flash Flood (due to Heavy Rain)
05/09/09 04:00 CST	0	Source: County Official

County officials reported some flooding problems in the city of Mayfield. State police reported water over Highways 348 East, 849 West, and 408 East. A secondary road just east of Lowes was washed out. A co-operative observer in Mayfield measured a 24-hour rainfall total of 3.20 inches.

**CALLOWAY COUNTY --- 3.5 ENE HICO [36.73, -88.16], 4.3 NNE FAXON [36.74, -88.13], 3.1 N FAXON [36.73, -88.15], 3.3 N FAXON [36.73, -88.16]**

## Storm Data and Unusual Weather Phenomena - May 2009

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	05/09/09 01:08 CST		0	Flash Flood (due to Heavy Rain)
	05/09/09 05:00 CST		0	Source: County Official

Water was over the roadway at Highway 94 East and Highway 497. A co-operative observer in east central Calloway County measured 2.77 inches.

**MARSHALL COUNTY --- 0.7 SE BENTON [36.86, -88.34], 1.0 NW DOGTOWN [36.86, -88.33], 1.2 NNW DOGTOWN [36.87, -88.33], 1.0 E BENTON [36.87, -88.33]**

	05/09/09 10:00 CST		0	Flood (due to Heavy Rain)
	05/10/09 23:00 CST		0	Source: Newspaper

The Clarks River flooded after a series of heavy downpours on the 8th and 9th. A young boy who was allowed to play in Clarks River floodwaters was rescued unhurt. The boy drifted about 1,500 feet before he was pulled into a rescue boat.

**A band of thunderstorms became stationary from west to east across the southern portion of western Kentucky. The storms were fed by a rather strong west-southwest low level jet up to 40 knots. A surface cold front became stationary across western Kentucky, providing a focus for the storms. Steering winds aloft were nearly parallel to the front. Excessive rainfall occurred in a few locations.**

**MUHLENBERG COUNTY --- PARADISE [37.27, -86.98], 0.3 W PARADISE [37.27, -86.99], 0.6 S PARADISE [37.26, -86.98], 0.5 SSE PARADISE [37.26, -86.98]**

	05/09/09 16:00 CST		0	Flood (due to Heavy Rain)
	05/16/09 15:00 CST		10K	Source: River/Stream Gage

Moderate flooding of the Green River occurred. At the Paradise gage, where flood stage is 380 feet, the river crested at 386.81 feet on the 12th. Agricultural bottomland and low-lying areas were flooded.

**MCLEAN COUNTY --- CALHOUN [37.53, -87.27], 0.4 SE CALHOUN [37.53, -87.27], 0.6 WSW CALHOUN [37.53, -87.28], 1.0 WNW RUMSEY [37.52, -87.29], 1.2 W CALHOUN [37.53, -87.29]**

	05/11/09 12:00 CST		0	Flood (due to Heavy Rain)
	05/15/09 16:00 CST		5K	Source: River/Stream Gage

Minor flooding of the Green River occurred. At the Calhoun Lock and Dam gage, where flood stage is 23 feet, the river crested at 24.51 feet on the 13th. Agricultural bottomland and low-lying areas were flooded.

**Several rounds of heavy rain over much of the Ohio and Mississippi River Valleys caused many rivers to rise above flood stage. May continued the active pattern begun in April. Several of these events produced very heavy rainfall. Rainfall was one to two inches above normal in most spots for the month.**

**HENDERSON COUNTY --- 1.0 SE HENDERSON [37.82, -87.57]**

	05/14/09 02:53 CST		0	Thunderstorm Wind (MG 59 kt)
	05/14/09 02:53 CST		0	Source: Broadcast Media

The gust to 68 mph was measured on Highway 136.

**A line of severe thunderstorms moved slowly southeast through the early morning hours. These storms moved through a very moist and unstable atmosphere. Small-scale bow echoes produced locally damaging winds.**

**LYON COUNTY --- 1.9 WNW SARATOGA [37.06, -88.03]**

	05/27/09 17:12 CST		0	Hail (1.00 in)
	05/27/09 17:12 CST		0	Source: Trained Spotter

The quarter-size hail occurred at the interchange of Interstate 24 and Highway 293.

**Scattered thunderstorms developed in a very unstable atmosphere in the heat of the afternoon. Remnant upper level vorticity centers originating from convective complexes over Arkansas and Missouri helped generate these storms.**

### MISSOURI, Southeast

**CAPE GIRARDEAU COUNTY --- 2.0 NE CAPE GIRARDEAU [37.32, -89.51], 2.8 NE CAPE GIRARDEAU [37.33, -89.50], 2.8 NE CAPE GIRARDEAU [37.33, -89.49], 2.2 NE CAPE GIRARDEAU [37.32, -89.50]**

	05/01/09 00:00 CST		0	Flood (due to Heavy Rain)
	05/30/09 09:00 CST		20K	Source: River/Stream Gage

## Storm Data and Unusual Weather Phenomena - May 2009

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<p>Minor to moderate flooding of the Mississippi River occurred for nearly the entire month of May. At the Cape Girardeau gage, where flood stage is 32 feet, the river crested at 38.89 feet on the 23rd. Moderate flooding begins around 37 feet. The flood gates at Broadway and on Themis Street were closed. Agricultural bottomland and low-lying areas were flooded. Wheat crops were destroyed, and corn-planting was delayed or cancelled.</p>				

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**SCOTT COUNTY --- 1.3 SE COMMERCE [37.14, -89.43], 1.4 ESE COMMERCE [37.14, -89.43], 0.7 ENE COMMERCE [37.15, -89.44], 0.5 E COMMERCE [37.15, -89.44]**

	05/01/09 01:00 CST	0	Flood (due to Heavy Rain)
	05/30/09 21:00 CST	20K	Source: River/Stream Gage

Minor to moderate flooding of the Mississippi River occurred for nearly the entire month of May. At the Cape Girardeau gage, where flood stage is 32 feet, the river crested at 38.89 feet on the 23rd. Moderate flooding begins there around 37 feet. Agricultural bottomland and low-lying areas were flooded.

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**MISSISSIPPI COUNTY --- BIRDS PT [36.97, -89.15], 1.3 ENE BIRDS PT [36.97, -89.13], 2.0 E BIRDS PT [36.97, -89.11], 2.0 ENE BIRDS PT [36.98, -89.11], 0.6 N BIRDS PT [36.98, -89.15]**

	05/05/09 02:00 CST	0	Flood (due to Heavy Rain)
	05/25/09 09:00 CST	30K	Source: River/Stream Gage

Minor flooding of the Mississippi River occurred for most of the month of May. At the New Madrid gage, where flood stage is 34 feet, the river crested at 39.11 feet on the 15th. Agricultural bottomland and low-lying areas were flooded.

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**NEW MADRID COUNTY --- 1.1 SSE HOWARDVILLE [36.56, -89.58], 1.5 SSW NEW MADRID [36.58, -89.54], 1.5 SW NEW MADRID [36.58, -89.55], 0.8 SSE HOWARDVILLE [36.57, -89.57]**

	05/05/09 09:00 CST	0	Flood (due to Heavy Rain)
	05/25/09 09:00 CST	30K	Source: River/Stream Gage

Minor flooding of the Mississippi River occurred for most of the month of May. At the New Madrid gage, where flood stage is 34 feet, the river crested at 39.11 feet on the 15th. Agricultural bottomland and low-lying areas were flooded.

**Several rounds of heavy rain over much of the Mississippi River Valley caused many rivers to rise above flood stage. May continued the active pattern begun in April. Several of these events produced very heavy rainfall. Rainfall was one to two inches above normal in most spots for the month.**

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**STODDARD COUNTY --- 1.2 N AID [36.90, -90.05], 2.0 E BLOOMFIELD [36.90, -89.88], 3.9 SE BERNIE [36.64, -89.92], 3.1 SE POWE [36.64, -90.06]**

	05/01/09 05:14 CST	0.10M	Flash Flood (due to Heavy Rain)
	05/01/09 11:15 CST	0	Source: Trained Spotter

Two people were evacuated by boat from their flooded residence near Puxico. Flash flooding of Dexter Creek inundated a lumber company in Dexter. Offices in the front of the main building were damaged. Other businesses near Highway 25 were affected by flooding. Some homes in west Dexter were flooded. Across the county, many roads and streets were flooded. Water was over State Highways E and F. The roads were not passable. Farms between Bernie and Dexter were partly flooded. A spotter just west of Dexter measured 3.24 inches in 24 hours.

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**MISSISSIPPI COUNTY --- 3.0 S WYATT [36.88, -89.22]**

	05/01/09 06:00 CST	0	Heavy Rain
	05/01/09 09:00 CST	0	Source: Law Enforcement

Eight inches of water was over a road.

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**SCOTT COUNTY --- 0.9 SE SIKESTON [36.87, -89.57], 2.1 WSW SIKESTON [36.86, -89.61], 2.2 WNW SIKESTON [36.89, -89.61], 1.1 W SIKESTON MEM ARPT [36.90, -89.57]**

	05/01/09 09:00 CST	0	Flash Flood (due to Heavy Rain)
	05/01/09 11:00 CST	0	Source: Law Enforcement

A few roads were barricaded due to flooding.

**A series of upper level disturbances interacted with a stalled front and abundant moisture. Due to saturated soil conditions, additional heavy rain caused localized flash flooding.**

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**PERRY COUNTY --- 1.4 N LITHIUM [37.85, -89.88]**

	05/08/09 00:45 CST	5K	Thunderstorm Wind (EG 50 kt)
	05/08/09 00:45 CST	0	Source: County Official

Power lines were down on County Road 928.

**Scattered thunderstorms persisted through the early morning hours along an axis of increasing moisture and confluence associated with a west-southwesterly low level jet. The activity was located on the southern fringe of a moderately strong east-west mid-level jet.**

## Storm Data and Unusual Weather Phenomena - May 2009

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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There was an isolated occurrence of wind damage in Perry County.

**CARTER COUNTY --- 7.3 NE VAN BUREN MUNI ARPT [37.08, -90.92]**

05/08/09 09:00 CST			20K	Thunderstorm Wind (EG 56 kt)
05/08/09 09:00 CST			0	Source: Newspaper

Six large trees fell across County Road 554. On neighboring properties, about two dozen other very large oak and pine trees came down. A fence was destroyed.

**CARTER COUNTY --- VAN BUREN [37.00, -91.02]**

05/08/09 09:00 CST			0	Heavy Rain
05/08/09 12:00 CST			0	Source: Unknown

Rainfall of 2.6 inches was reported.

**RIPLEY COUNTY --- DONIPHAN [36.62, -90.82]**

05/08/09 09:00 CST			0	Heavy Rain
05/08/09 13:00 CST			0	Source: Emergency Manager

Water was over roads.

**RIPLEY COUNTY --- 2.4 SSE PINE [36.67, -91.11], DONIPHAN [36.62, -90.82]**

05/08/09 09:15 CST			0.75M	Thunderstorm Wind (EG 78 kt)
05/08/09 09:30 CST			0	Source: NWS Storm Survey

This intense macroburst was centered along U.S. Highway 160 over western and central Ripley County, including the city of Doniphan. The average path width was about 5.5 miles, averaging from two miles north of Highway 160 to about three miles south. Peak wind gusts near 90 mph caused extensive tree damage, in addition to structural damage in the city of Doniphan. The Ripley County courthouse, a nearby commercial business, and the chamber of commerce building lost portions of their roofs. Rain caused water damage to all three buildings. A museum lost metal roofing. Two houses in the city were damaged by a falling tree. Doors were blown off buildings and blown up to 50 yards. Windows were broken. Winds were measured at 79 mph at the Doniphan Fire Department and estimated at 90 mph by the NWS survey team at the courthouse. A tree fell through a trailer home on Highway Y, splitting it in two. A house in Gatewood was damaged by a falling tree. There were numerous power outages around the county. Many roads were blocked by downed trees.

**BUTLER COUNTY --- 3.1 SSE POPLAR BLUFF [36.71, -90.37]**

05/08/09 09:50 CST	2		45K	Thunderstorm Wind (EG 61 kt)
05/08/09 09:50 CST			0	Source: Newspaper

A moving vehicle along Highway 53 was destroyed by a very large oak tree that fell on it. Both occupants of the vehicle were killed, probably on impact. A small fire started in the engine compartment after emergency responders arrived. A 40-foot semi-trailer was overturned in the immediate vicinity of the crushed vehicle. The tin roof was lifted off a barn. A portion of a large shed collapsed.

Direct Fatalities: M59VE, F55VE

**PERRY COUNTY --- 2.2 W MC BRIDE [37.83, -89.87], MC BRIDE [37.83, -89.83]**

05/08/09 10:20 CST			7K	Tornado (EF0, L: 2.20 mi , W: 50 yd)
05/08/09 10:23 CST			0	Source: NWS Storm Survey

The tornado was videotaped by a person at the Perryville airport and shown on local media outlets. The path was visible in a wheat field along County Road 934. Dozens of trees were down near the path, apparently due to inflow winds. Eyewitness accounts of the tornado were obtained. Peak winds were estimated near 65 mph.

**BOLLINGER COUNTY --- 3.3 W NORTH PATTON [37.54, -90.08], 2.2 NW SEDGEWICKVILLE [37.54, -89.95]**

05/08/09 11:15 CST			8M	Thunderstorm Wind (EG 91 kt)
05/08/09 11:45 CST			0	Source: NWS Storm Survey

Thousands of trees were blown down, primarily across northern parts of the county. A lot of structural damage occurred along Highway 72. About 250 homes received some degree of damage, ranging from loose shingles to roofs lifted off. Many barns and outbuildings were destroyed. The Patton and Sedgewickville areas were the hardest hit. In particular, the area from Sedgewickville west to the Madison County line suffered extreme damage. Trees fell on houses, roads, and power lines. Power poles were snapped. Extended power outages lasting 3 to 5 days were widespread. A 28-foot camper was overturned in Sedgewickville. Nearby, a manufacturing company was heavily damaged. Six cars parked in front of the building were crushed by metal beams. The roof of the building was torn off. Across the damage area, emergency workers conducted door-to-door welfare checks. Food and water were distributed to those without power. Blocked roads were a major setback to recovery efforts. The damage was almost all north of Marble Hill.

## Storm Data and Unusual Weather Phenomena - May 2009

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>PERRY COUNTY --- 1.6 N SILVER LAKE [37.70, -89.99], 2.1 N RED ROCK [37.78, -89.68]</b>				
	05/08/09 11:20 CST		50M	Thunderstorm Wind (EG 74 kt)
	05/08/09 12:00 CST		0	Source: NWS Storm Survey

Widespread damaging winds affected most of the county. Hundreds of trees were blown down, roofs were blown off, and signs became airborne. In Perryville, the exterior wall of a tire company collapsed. The entire building was deemed a total loss. Structural damage occurred in many communities, mostly due to falling trees. Among other structures, a machine shed was destroyed in Millheim. Most residents of the county experienced some type of damage, ranging from downed trees to roofs off. Vehicles were smashed by falling trees. At a church, the roof was damaged, and tombstones were toppled at an adjacent cemetery. The glass of the front door was blown out. At another church in Altenburg, a 22,000-pound steeple constructed in 1867 blew down onto the roof. A large portion of the roof was peeled off an apartment complex in Perryville, forcing its evacuation. The roof of the new senior center in Perryville was destroyed. Emergency workers conducted door-to-door checks using vehicles and helicopters.

<b>CAPE GIRARDEAU COUNTY --- OAK RIDGE [37.50, -89.73], 0.8 SSE HINES LNDG [37.54, -89.52]</b>				
	05/08/09 11:25 CST		3M	Thunderstorm Wind (EG 70 kt)
	05/08/09 12:05 CST		0	Source: NWS Storm Survey

Widespread damaging winds affected northern parts of the county. Over 1,000 trees were blown down, along with power lines. Many roads were blocked. The trees fell on homes, vehicles, and power lines. Power poles were snapped. Extended power outages lasting up to several days were reported. Barns and sheds were blown down. Just west of Oak Ridge, 259 trees were blown down on a single farm. The house and a garage on the farm received holes in their roofs. Windows were blown out of at least one house in Oak Ridge. Towns that experienced the worst damage were north of Jackson, including Daisy and Pochontas. Several trees were blown down in Jackson, including one that landed on a car.

<b>PERRY COUNTY --- PERRYVILLE [37.72, -89.87]</b>				
	05/08/09 11:45 CST		0	Heavy Rain
	05/08/09 12:45 CST		0	Source: Emergency Manager

Some flooding was reported on roads.

**A mature, very intense derecho moved rapidly east along a stationary front across the Mid Mississippi Valley into the Lower Ohio Valley. With a very moist and unstable atmosphere, along with strongly veering winds aloft, embedded tornadic supercells were associated with the derecho. Widespread damaging winds were the primary impact. The bowing portion of the system caused extensive damage from the Poplar Bluff area west. The comma head at the northern end of the bow caused locally catastrophic damage along and north of a Marble Hill to Jackson line. Winds were estimated slightly over 100 mph there.**

<b>BUTLER COUNTY --- 4.0 SE POPLAR BLUFF [36.71, -90.35], 3.5 SSE POPLAR BLUFF [36.70, -90.38], 1.9 S POPLAR BLUFF [36.72, -90.40], 1.6 SE POPLAR BLUFF [36.73, -90.38]</b>				
	05/08/09 22:00 CST		0	Flash Flood (due to Heavy Rain)
	05/09/09 00:30 CST		0	Source: Emergency Manager

Highway 53 northbound was covered with water. The southbound side was partially covered.

<b>RIPLEY COUNTY --- 1.6 WNW DONIPHAN [36.63, -90.84], 1.9 SW DONIPHAN [36.60, -90.85], 1.3 SE DONIPHAN [36.61, -90.80], 1.2 NE DONIPHAN [36.63, -90.80]</b>				
	05/08/09 22:00 CST		0.15M	Flash Flood (due to Heavy Rain)
	05/09/09 00:30 CST		0	Source: Emergency Manager

Flash flooding in Doniphan resulted in the evacuation of ten people trapped in flooded homes near Quick Creek. Since the flooding rains occurred on the heels of a damaging macroburst earlier in the day, water damage occurred where roofs had not been adequately tarped. The county courthouse in Doniphan sustained major water damage. Major flooding occurred at the high school in Doniphan, where every classroom was flooded and the asphalt parking lots buckled. A watermark on the outside of the main high school building was 18 inches above ground level. Homes near the high school were flooded. Leaks caused minor water damage at the elementary and middle schools. A grocery market was flooded. Flash flooding of Quick Creek in Doniphan caused significant damage. At least one vehicle was totally submerged, and floodwater came several feet up the sides of a house and garage. All secondary roads were covered with water, and 50 percent of the primary roads were covered. A woman and child were rescued from their vehicle that was submerged in waist-deep water. The 24-hour rainfall at Doniphan was 5.03 inches.

**A band of thunderstorms became stationary from west to east across the Ozark foothills. The storms were fed by a rather strong west-southwest low level jet up to 40 knots. A surface cold front moved very slowly south across extreme southern Missouri, providing a focus for the storms. Steering winds aloft were nearly parallel to the front. Excessive rainfall occurred in a few locations.**

<b>BUTLER COUNTY --- NEELYVILLE [36.57, -90.50]</b>				
	05/14/09 01:20 CST		10K	Thunderstorm Wind (EG 56 kt)
	05/14/09 01:20 CST		0	Source: Law Enforcement

## Storm Data and Unusual Weather Phenomena - May 2009

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
An eight-by-ten foot shed was destroyed. Minor shingle damage occurred. Two trees were downed.				
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<b>CAPE GIRARDEAU COUNTY --- 2.0 W JACKSON [37.38, -89.71]</b>				
	05/14/09 01:40 CST		5K	Thunderstorm Wind (EG 56 kt)
	05/14/09 01:40 CST		0	Source: Emergency Manager

There was roof damage to a single residence. A window in the front door was cracked. Debris was blown in all directions from the residence.

**A line of severe thunderstorms moved slowly southeast through the early morning hours. These storms moved through a very moist and unstable atmosphere. Small-scale bow echoes produced locally damaging winds.**

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<b>CAPE GIRARDEAU COUNTY --- CAPE GIRARDEAU [37.30, -89.53]</b>				
	05/27/09 18:40 CST		0	Heavy Rain
	05/27/09 19:40 CST		0	Source: Trained Spotter

Standing water was observed on some roads in Cape Girardeau.

**Scattered thunderstorms developed in a very unstable atmosphere in the heat of the afternoon. Remnant upper level vorticity centers originating from convective complexes over Arkansas and Missouri helped generate these storms. Copious amounts of rain fell in isolated storms.**